

Title (en)  
RESONATOR FOR VEHICLE

Title (de)  
FAHRZEUGSRESONATOR

Title (fr)  
Résonateur pour véhicule

Publication  
**EP 2907997 A1 20150819 (EN)**

Application  
**EP 15154559 A 20150210**

Priority  
• KR 20140016722 A 20140213  
• KR 20140016724 A 20140213  
• KR 20140100471 A 20140805

Abstract (en)  
Disclosed is a resonator for a vehicle, which reduces intake noise by using a resonance chamber for frequency tuning, includes an outer pipe having a first outer pipe with an inlet for introducing external air and a second outer pipe with an outlet for discharging the air introduced into the inlet to outside, an inner pipe disposed inside the outer pipe and having a plurality of slits for giving a passage of air, and an expansion pipe inserted between the outer pipe and the inner pipe to partition a space between the outer pipe and the inner pipe into a plurality of spaces and thus partition the resonance chamber into a plurality of regions.

IPC 8 full level  
**F02M 35/12** (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP US)  
**F02M 35/1036** (2013.01 - EP US); **F02M 35/1211** (2013.01 - EP US); **F02M 35/1216** (2013.01 - EP US); **F02M 35/1227** (2013.01 - EP US); **F02M 35/1233** (2013.01 - EP US); **F02M 35/1255** (2013.01 - US); **F02M 35/1266** (2013.01 - EP US)

Citation (applicant)  
• KR 20060116275 A 20061115 - HYUNDAI MOTOR CO LTD [KR]  
• KR 20090047083 A 20090512 - HYUNDAI MOTOR CO LTD [KR], et al

Citation (search report)  
• [X] US 2166417 A 19390718 - MANNING WILLIS L  
• [X] US 2014368 A 19350917 - ALFRED BLUNDELL  
• [A] EP 2067979 A1 20090610 - HUTCHINSON [FR]  
• [A] US 5839405 A 19981124 - FALKOWSKI ALAN [US], et al

Cited by  
GB2546792A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2907997 A1 20150819; EP 2907997 B1 20180523**; CN 104847548 A 20150819; CN 104847548 B 20170609; ES 2681280 T3 20180912; US 2015226163 A1 20150813; US 9309843 B2 20160412

DOCDB simple family (application)  
**EP 15154559 A 20150210**; CN 201510075287 A 20150212; ES 15154559 T 20150210; US 201514618852 A 20150210